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添付公開書頭:

一 国際調査報告書

2文字コード及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

(54) Title: HAIR GROWTH TONIC

(54) 発明の名称: 育毛剤

(57) Abstract: A hair papilla cell growth promoter, a hair growth stimulant and a hair growth tonic containing a compound having an activity of inhibiting the function of WNT-SA.

(57) 要約: WNT-5 Aの機能阻害活性を有する化合物を含有する毛乳頭細胞増殖促進剤、発毛剤及び育毛剤。



International application No.
PCT/JP03/04884

Int.	FICATION OF SUBJECT MATTER Cl ⁷ A61K7/06, 45/00, A61P17/14 493/06, 493/08, 493/16		193/04,
According to	o International Patent Classification (IPC) or to both na	tional classification and IPC	
	SEARCHED		
Minimum de Int.	ocumentation searched (classification system followed CL ⁷ A61K7/06-155, 45/00, C07D2	oy classification symbols) 271/08, 313/00, 493/02-2	22
Documentat	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched
Electronic d CA (S	ata base consulted during the international search (nam TN)	e of data base and, where practicable, sca	rch terms used)
C. DOCUM	ZENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
A	WO 01/74164 A1 (THE GENERAL 11 October, 2001 (11.10.01), Full text	HOSPITAL CORP.),	1-6,8-10
X A	EP 606044 Al (SANDOZ LTD.), 13 July, 1994 (13.07.94), Examples 8, 10 & JP 6-228122 A		3 1,2,4~6,8-10
X A	JP 9-202781 A (Sankyo Co., I 05 August, 1997 (05.08.97), Full text (Family: none)	itd.),	3 1,2,4-6,8-10
			·
Further documents are listed in the continuation of Box C.		See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to earablish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
10 J	actual completion of the international search fuly, 2003 (10.07.03)	Date of mailing of the international sear 05 August, 2003 (05	
Name and mailing eddress of the ISA/ Japanese Patent Office		Authorized officer	
Factimile No.		Telephone No.	

International application No.

PCT/JP03/04884

ntegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No. 3 1,2,4-6,8-10
X	US 3687982 A (Commercial Solvents Corp.), 29 August, 1972 (29.08.72), Full text & JP 47-29384 A & FR 2128316 Al & DE 2210563 Al	
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International application No.
PCT/JP03/04884

Box I Observations where cartain claims were found unscarchable (Continuation of item 2 of first sheef) This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: 7 because they relate to subject matter not required to be searched by this Authority, namely: Claim 7 involves methods for treatment of the human body by therapy and thus relates to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search. 2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: See extra sheet. 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fco. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 4. Mo required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

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Subject of the search

Claim 1 relates to a hair papilla cell growth promoter which contains as the active ingredient a compound defined by a desired property "an activity of inhibiting the function of WNT-5A", while claim 2 relates to a hair papilla cell growth promoter which contains as the active ingredient a compound defined by a desired property "inhibiting the production of WNT-5A". Although claims 1 and 2 involve any compounds having such properties, it is recognized that only parts of the claimed compounds are disclosed in the meaning as described in PCT Article 5 and thus these claims are not supported by the disclosure in the description in the meaning as described in PCT Article 6.

Although the common technical knowledge at the point of the application is taken into consideration, the scopes of the "compound having an activity of inhibiting the function of WNT-5A" and the "WNT-5A production inhibitor" cannot be specified. Thus, claims 1 and 2 also fail to fulfill the requirement of clearness as described in PCT Article 6.

Such being the case, the search was made on the relationship between the inhibition of the function of WNT-5A and the promotion of hair papilla cell growth, the stimulation of hair growth or the hair growth, the compounds specifically presented in the description, and the hair papilla cell growth promoters, hair growth stimulants and hair growth tonics containing as the active ingredient the compounds as set forth in claims 4 to 6. Claims 4 to 6 were completely examined.

The same applies to the search on claims 8 to 10.